What is claimed is:

1.   A program used to direct a computer to use a knowledge processing method for use with a knowledge processing system formed by a structure of knowledge relating to a designed event based on a class and a relationship between classes, comprising:

    storing in a database a super class having a name inclusively describing a class of the knowledge, the class, and the relationship between the classes; and

    detecting a class relating to a super class stored in the database, generating a relationship between the classes by an inference based on multivalued logic, and configuring a knowledge structure from information stored in the database and the relationship between the classes obtained by the inference.

2.   The program according to claim 1, wherein the relationship between the classes includes a weight which weights a relationship between classes obtained by the inference based on the multivalued logic and a hierarchical structure.

3.   The program according to claim 1, wherein

in the inferring step, a new class is generated when the new class can be generated to associate classes by the inference, and is associated with another class so that knowledge can be structured.

4.   The program according to claim 1, wherein

in the inferring step, a temporal inference on a knowledge structure described in a class group is conducted and a relationship between classes with a change with time of described knowledge taken into account is included in the knowledge structure.

5.   The program according to claim 1, wherein

on a part of a user who uses the knowledge structure generated on a part of a designer, a knowledge structure designed on the part of the designer is restructured by an inference using multivalued logic according to information about a super class describing the knowledge structure and a class group.

6.   A knowledge processing method for use with a

knowledge processing system formed by a structure of knowledge relating to a designed event based on a class and a relationship between classes, comprising:

5   storing in a database a super class having a name inclusively describing a class of the knowledge, the class, and the relationship between the classes; and

detecting a class relating to a super class 10   stored in the database, generating a relationship between the classes by an inference based on multivalued logic, and configuring a knowledge structure from information stored in the database and the relationship between the classes obtained 15   by the inference.

7.   The method according to claim 6, wherein the relationship between the classes includes a weight which weights a relationship between 20   classes obtained by the inference based on the multivalued logic and a hierarchical structure.

8.   The method according to claim 6, wherein in the inferring step, a new class is 25   generated when the new class can be generated to

associate classes by the inference, and is associated with another class so that knowledge can be structured.

5   9.   The method according to claim 6, wherein

in the inferring step, a temporal inference on a knowledge structure described in a class group is conducted and a relationship between classes with a change with time of described knowledge taken into

10   account is included in the knowledge structure.

10.   The method according to claim 6, wherein

on a part of a user who uses the knowledge structure generated on a part of a designer, a

15   knowledge structure designed on the part of the designer is restructured by an inference using multivalued logic according to information about a super class describing the knowledge structure and a class group.

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11.   A knowledge processing system formed by a structure of knowledge relating to a designed event based on a class and a relationship between classes, comprising:

25   a storage unit storing in a database a super

class having a name inclusively describing a class of the knowledge, the class, and the relationship between the classes; and

a inference unit detecting a class relating to a super class stored in the database, generating a relationship between the classes by a inference based on multivalued logic, and configuring a knowledge structure from information stored in the database and the relationship between the classes obtained by the inference.

12. The system according to claim 11, wherein the relationship between the classes includes a weight which weights a relationship between classes obtained by the inference based on the multivalued logic and a hierarchical structure.

13. The system according to claim 11, wherein in the inference unit, a new class is generated when the new class can be generated to associate classes by the inference, and is associated with another class so that knowledge can be structured.

14. The system according to claim 11, wherein

in the inference unit, a temporal inference on a knowledge structure described in a class group is conducted and a relationship between classes with a change with time of described knowledge taken into account is included in the knowledge structure.

15. The system according to claim 11, wherein on a part of a user who uses the knowledge structure generated on a part of a designer, a knowledge structure designed on the part of the designer is restructured by an inference using multivalued logic according to information about a super class describing the knowledge structure and a class group.